

Eastern Band of Cherokee Indians Air Quality Program

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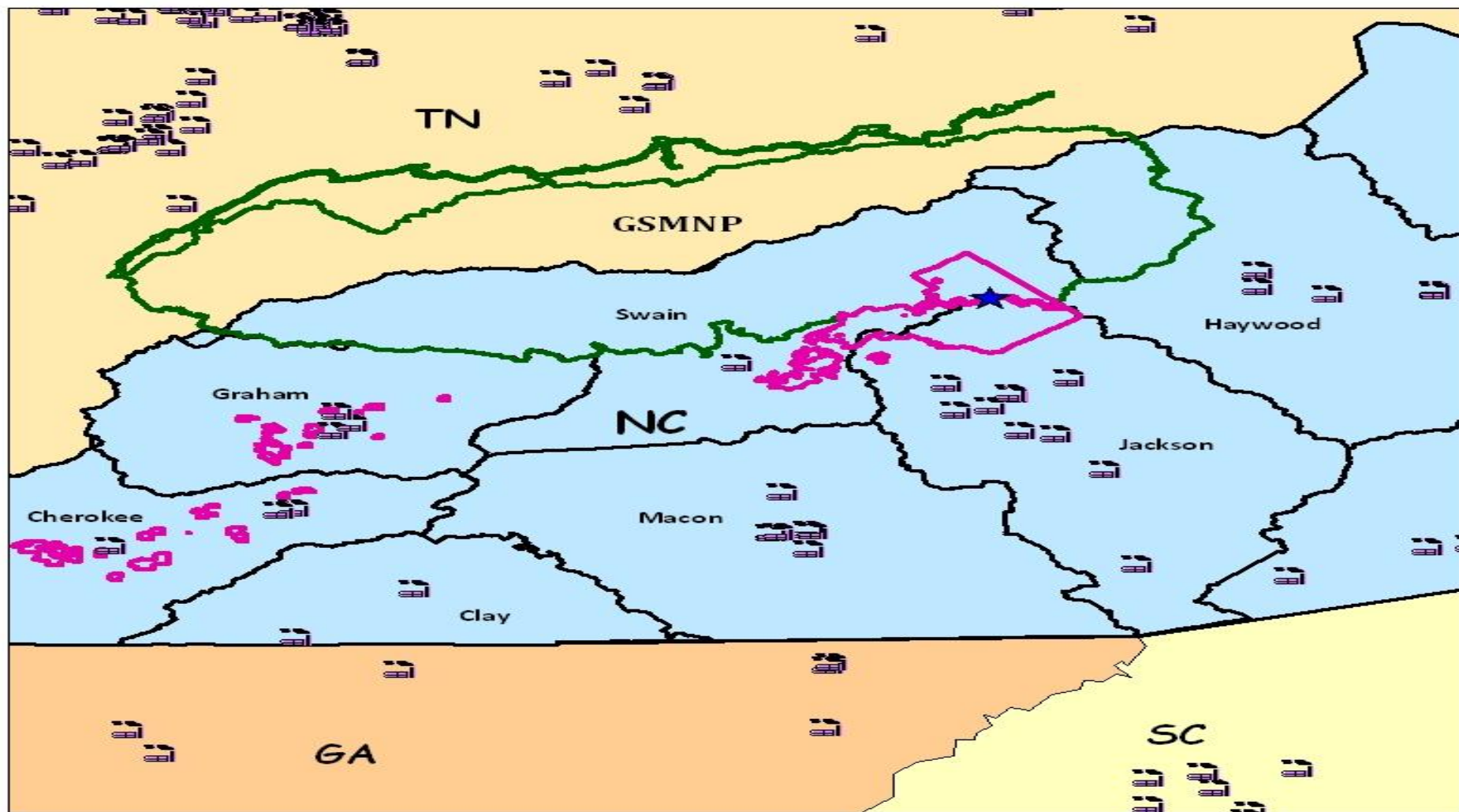
Amy Smoker
Environmental Technician

EBCI Air Quality Program

- Only Tribe w/ continuous air monitoring program in Reg. 4 (6 Tribes in Reg. 4)
- 2 staff members
- Over 56,000 acres of Tribal land – in 4 different counties



EBCI Trans-Boundary Emission Sources



Legend

-  2005 NEI Emission Sources
-  Barnett Knob Ozone Site
-  EBCI Reservation Boundary
-  Great Smoky Mountains National Park (GSMNP) Boundary

0 3 6 12 18 24 Miles



Created By: Katie Renwick



Projects & Duties



- EPA grant writing & reporting
- Air monitoring - O & M
- Data validation
- AQS data submittal
- Regional & national involvement
- Indoor air quality
- Alternative energy & fuel
- Outreach & education
- Climate change research/adaptation planning
- Other duties as assigned

Monitoring Sites

- Barnett Knob - ozone & met (above 4000 ft)
- Old High School - ozone & met (population level)
- Environmental Office - PM_{2.5} co-located samplers





The Beginning



- No air quality experience
- Unaware of training organizations



- Problem after problem w/ ozone instruments
- QA/QC - what's that!?

Taking Steps Forward

- Lots of Tribal Air Monitoring Support (TAMS) Center Trainings
 - AQS
 - Data Management
 - Tribal Data Toolbox
 - IAQ
 - Grants Management
- NC DAQ ozone equipment loan
- Data comparable to NAAQS!!!
- Trial and error



Climbing The Ladder



- **Purchased new ozone equipment**
- **Professional Assistance from TAMS**
- **Involvement in national committees**

National Committees

- Tribal Air Monitoring Support (TAMS) Center Steering Committee
- National Tribal Air Association (NTAA) Executive Committee
- EPA Tribal Science Council (TSC)



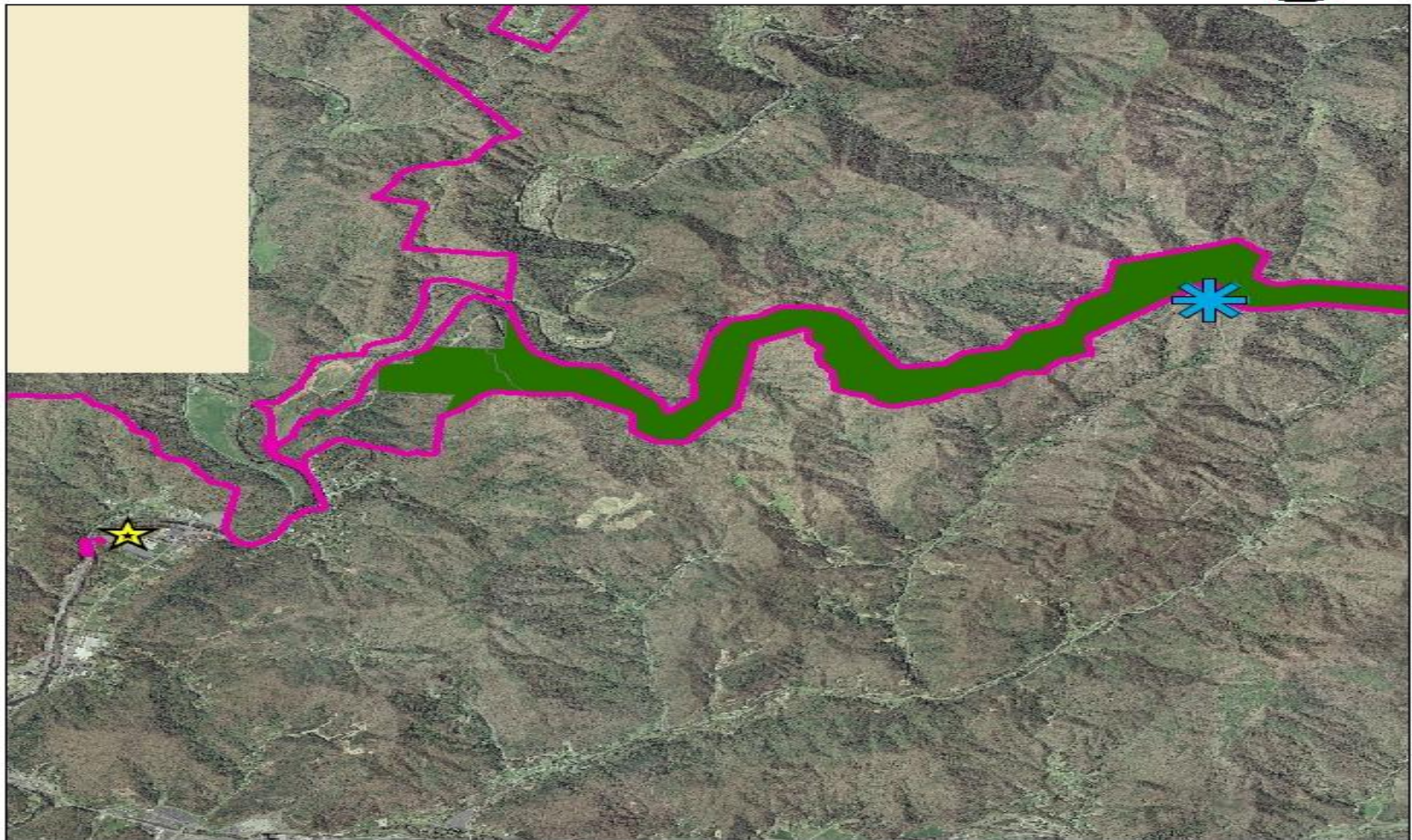
Still Climbing



- **New monitoring site – population level – NAAQS compliance**
- **Tribal Environmental exchange (TREX) Network**
wxweb.meteostar.com/tribal/
- **Community awareness**

New Monitoring Shelter!!





Legend



Old Highschool Site



Barnett Knob Site



EBCI Reservation Boundary



Blue Ridge Parkway Boundary



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Thank you!

